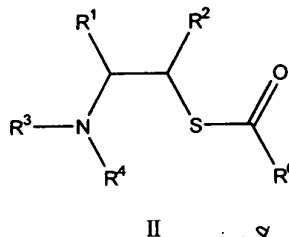
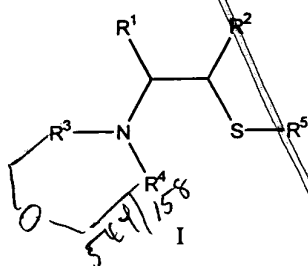


WHAT IS CLAIMED IS:

1. An aminothiols compounds and their acylated derivatives thereof, having general formula I and formula II, respectively,



wherein R<sup>1</sup>-R<sup>6</sup> are substitutable ligands.

2. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R<sup>1</sup> is aryl.

10 3. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R<sup>1</sup> is alkyl of C1-C9.

4. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R<sup>2</sup> is aryl.

15 5. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R<sup>2</sup> is alkyl of C1-C9.

6. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R<sup>3</sup> is alkyl of C1-C9.

7. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R<sup>4</sup> is alkyl of C1-C9.

20 8. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R<sup>5</sup> is H.

9. The aminothiols compounds and acylated derivatives thereof as

claimed in claim 1, wherein R<sup>5</sup> is alkyl of C1-C6.

10. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R<sup>6</sup> is H.

11. The aminothiols compounds and acylated derivatives thereof as  
5 claimed in claim 1, wherein R<sup>6</sup> is alkyl of C1-C6.

12. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, wherein R<sup>3</sup>, R<sup>4</sup> and N form a cycle.

13. The aminothiols compounds and acylated derivatives thereof as  
10 claimed in claim 12, wherein R<sup>3</sup>, R<sup>4</sup> and N form a three-to-eight-membered heterocycle.

14. The aminothiols compounds and acylated derivatives thereof as claimed in claim 12, wherein R<sup>3</sup>, R<sup>4</sup>, O and N form a ring by means of morpholine.

15. The aminothiols compounds and acylated derivatives thereof as  
15 claimed in claim 1, wherein R<sup>3</sup>, R<sup>4</sup>, O and N form a ring by means of morpholine.

16. The aminothiols compounds and acylated derivatives thereof as claimed in claim 1, which are chiral ligands capable of reacting with organic metal compounds to form metal complexes and then react with  
20 carbonyl to produce alkylmetal in asymmetric addition reactions.

17. The aminothiols compounds and acylated derivatives thereof as claimed in claim 16, wherein said carbonyl compound is aldehyde.

18. The aminothiols compounds and acylated derivatives thereof as claimed in claim 16, wherein said carbonyl compound is ketone.

25 19. The aminothiols compounds and acylated derivatives thereof as

[illegible]